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Effect of the RNase from bacillus intermedium on the trophic organization of the mitotic cycle of candida utilis

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Abstract

The effect of the RNase from Bacillus intermedius on the growth and trophic cycle of Candida utilis was studied. The RNase at concentrations of 0.001-0.01 μg/ml stimulated yeast growth by 30-40% as compared to the control, reduced the mitotic cycle of the yeast by shortening its Gl phase, and decreased the number of exotrophic cells in the Gl phase to a minimum. It was suggested that RNase is involved in the regulation of the transition of cells from the exo- to endotrophic state.

Keywords

Ribonuclease, Stimulation, Trophic cycle